Warm-Up:

You are playing a game that involves a spinner. When spun you will get 20 points 20% of the time, 5 points 40% of the time and 0 points the rest of the time.

1. Create the probability model for one spin.
2. Find the mean
3. Find the variance and standard deviation.
4. Suppose the points were doubled. Find the new probability model, mean, variance, and standard deviation
5. Suppose you spun two times. Find the new probability model(use a tree diagram for help).
6. Find the new mean, variance, and standard deviation for two spins.
7. Are the probability models the same for Doubling points as they are for Spinning Twice?
8. Are the means the same between Doubling and Spinning Twice?
9. Are the variances the same between Doubling and Spinning Twice?
10. Are the standard deviations the same between Doubling and Spinning Twice?

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